

IN THE CLAIMS

Please amend Claims 71, 72, 74-77, 81-84, 87-88, 90, 93-94, 97-99, 101, 103-106, 109, 113-115, 118, 122-123, 127, 130-131, 133-137, 139-140, 142-145, 148, 151-157, 160, 164-166, 168, 170-172, 175-180, 183-184, 187-188, 191-192, 195-197, 199-204, 207-208, 211, 213-216, and 219-223 as indicated below:

1.-70. (Canceled)

71. (Currently Amended) In a communications network where a processing machine establishes communication between a first caller and a second caller, wherein said first caller is coupled to said processing machine over a first communication medium, and said processing machine is coupled to said second caller over a second communication medium, a method comprising:

invoking at least one connection routine at said processing machine to cause control signals to be sent to at least one of said first and second callers to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted to at least one of said first and second callers, in accordance with said media type selections, ~~and~~ over said first communication medium via one or more packet switched communication channels; and

wherein for at least one of said at least two different media types, ~~the~~ said processing machine causes media signals to be communicated between ~~the~~ said first and second callers[[,]] ; and

wherein said first communication medium comprises a packet switched network, and said second communication medium comprises a non-packet switched network.

72. (Currently Amended) The method of Claim 71, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

73. (Previously Presented) The method of Claim 71, wherein said media signals communicated between said first and second callers are communicated between the packet switched network and a telephonic network.

74. (Currently Amended) The method of Claim 71, further comprising:
assigning a priority to each of said plurality of digital media packets at said processing machine;

wherein said plurality of digital media packets are transmitted from said processing machine in substantially ~~said~~ the order of said assigned priorities.

75. (Currently Amended) The method of Claim 74, wherein said transmission of said plurality of digital media packets in substantially ~~said~~ the order of said assigned ~~priority~~ priorities further comprises:

providing a queue for holding said plurality of digital media packets ~~respectively~~
~~corresponding to each of said plurality of digital media~~ prior to transmission;

placing successive ones of said plurality of digital media packets in said queue in order of said assigned ~~priority~~ priorities; and

transmitting ~~the~~ a first digital media packet of said queue.

76. (Currently Amended) The method of Claim 71, wherein said plurality of digital media ~~data~~ packets include video packets and audio packets.

77. (Currently Amended) The method of Claim 71, wherein said plurality of digital media ~~data~~ packets include video packets, audio packets, and collaborative data packets.

78. (Previously Presented) The method of Claim 77, wherein said video packets are assigned a lower priority than said audio packets.

79. (Previously Presented) The method of Claim 77, wherein said collaborative data packets are assigned a lower priority than said video packets.

80. (Previously Presented) The method of Claim 71, wherein said media type selections are bidirectional media type selections.

81. (Currently Amended) The method of Claim 71, wherein ~~said~~ a media type selection for said first caller is the same as ~~said~~ a media type selection for said second caller.

82. (Currently Amended) The method of Claim 71, wherein ~~said~~ a media type selection for said first caller is different than ~~said~~ a media type selection for said second caller.

83. (Currently Amended) The method of Claim 71, wherein said second communication medium comprises a telephone line, and said second caller is coupled to the telephone line via a first modem.

84. (Currently Amended) The method of Claim 83, wherein ~~the~~ said processing machine further comprises a second modem and communicating said media signals between said first and second callers comprises transmitting packets received from ~~the~~ said first communication medium ~~to the second caller by transmitting from the~~ said second modem to ~~the~~ said first modem.

85. (Previously Presented) The method of claim 71, wherein said act of causing control signals to be sent comprises sending messages from one or more connection routines at said processing machine to respective connection routines of the first and second callers.

86. (Previously Presented) The method of Claim 71, wherein said media type selections involve user interaction.

87. (Currently Amended) In a communications network where a processing machine establishes communications between at least first and second user machines, said first user machine being coupled to said processing machine over a first communication medium, and said processing machine being coupled to said second user machine over a second communication medium, a method comprising:

causing control signals to be sent to said first and second user machines to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types, said digital media packets being transmitted in accordance with said media type selections over said first communication medium;

wherein for at least one of said at least two different media types, media signals are communicated between ~~the~~ said first and second user machines~~[[,]]~~ ; and

wherein said first communication medium comprises a packet switched network, and said second communication medium comprises a non-packet switched network.

88. (Currently Amended) The method of Claim 87, wherein said first communication medium has an indeterminate packet loss.

89. (Previously Presented) The method of Claim 87, wherein said act of communicating media signals between said first and second user machines comprises communicating signals between the packet switched network and a telephonic network.

90. (Currently Amended) The method of Claim 87, wherein said act of communicating media signals between said first and second user machines comprises communicating signals between said first and second communication mediums.

91. (Canceled).

92. (Previously Presented) The method of Claim 87, wherein the non-packet switched network comprises a telephone line.

93. (Currently Amended) The method of Claim 87, further comprising:
assigning a priority to each of said plurality of digital media packets at said processing machine;

wherein said plurality of digital media packets are transmitted from said processing machine in substantially ~~said~~ the order of said assigned priorities.

94. (Currently Amended) The method of Claim 93, wherein said transmission of said plurality of digital media packets ~~over said communication network~~ from said processing machine in substantially ~~said~~ the order of said assigned ~~priority~~ priorities further comprises:

providing a queue for holding said plurality of digital media packets ~~respectively~~
~~corresponding to each of said plurality of digital media types~~ prior to transmission;

placing successive ones of said plurality of digital media packets in said queue in order of said assigned ~~priority~~ priorities; and

transmitting a first digital media packet of said queue.

95. (Previously Presented) The method of Claim 87, wherein at least one of said media type selections is performed by a user.

96. (Previously Presented) The method of Claim 87, wherein at least one of said media type selections is self configured by a routine running on said first or second user machine.

97. (Currently Amended) In a communications network where first and second user machines are adapted for communication with a processing machine via first and second communication mediums, respectively, a method of establishing user-to-user communication comprising:

causing control signals to be sent to said first and second user machines to enable respective media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of packets corresponding to each of said at least two different media types, said plurality of packets being transmitted in accordance with said media type selections over at least one channel of said first communication medium;

wherein for at least one of said at least two different media types, media signals are communicated between ~~the~~ said first and second user machines via both said first and second communication mediums[[,]] ; and

wherein said first communication medium comprises a packet switched network, and said second communication medium comprises a non-packet switched network.

98. (Currently Amended) The method of Claim 97, wherein said at least one channel ~~having~~ has an indeterminate packet loss.

99. (Currently Amended) The method of Claim 97, wherein said act of communicating media signals between said first and second user machines comprises communicating between ~~the~~ said packet switched network and a telephonic network.

100. (Previously Presented) The method of Claim 99, wherein said second user machine is coupled to the telephonic network via a first modem.

101. (Currently Amended) The method of Claim 100, wherein ~~the~~ said processing machine further comprises a second modem, and ~~communication of said~~ said act of communicating media signals comprises transmitting packets received from ~~the~~ said packet-switched network to ~~the~~ said second user machine by transmitting said packets from the second modem to the first modem.

102. (Previously Presented) The method of Claim 97, wherein said causing control signals to be sent comprises sending messages from one or more connection routines in data communication with the processing machine to respective connection routines of the first and second user machines.

103. (Currently Amended) For use in a system where an apparatus is adapted to communicate with a first caller via a packet switched network, communicate with a second caller at least via a telephone line, and to communicate signals between the first and second callers, a method comprising:

negotiating with a remote processing machine a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the apparatus to process media data packets received from and to be transmitted to said remote processing machine over said packet switched network via one or more packet switched communication channels; and

placing said second caller into signal communication with the apparatus at least via the telephone line;

wherein said selection is of only audio, and said negotiation comprises sending a first message and receiving a response message, said negotiation involving a message format that supports the description of ~~the~~ said audio, video and data media types, wherein the first message indicates that only audio is being offered in ~~the~~ said negotiation; ~~and~~

wherein the apparatus communicates information between said remote processing machine and said telephone line~~[[,]]~~ ; and

wherein the telephone line transmits and receives data in a non-packet switched manner.

104. (Currently Amended) The method of Claim 103, wherein said one or more packet switched communication channels has indeterminate packet loss, and wherein said indeterminate packet loss is at least in part a consequence of indeterminate system delays and bandwidth limitations of said one or more packet switched communications channels.

105. (Currently Amended) The method of Claim 103, further comprising:

assigning a priority to each of said media data packets at said apparatus;

wherein said media data packets are transmitted from said apparatus in substantially ~~said~~ the order of said assigned priorities.

106. (Currently amended) The method of Claim 105, wherein said transmission of said ~~plurality of media data packets over said communication system~~ from said apparatus in substantially ~~said~~ the order of said assigned ~~priority~~ priorities further comprises:

providing a queue for holding said ~~plurality of media data packets~~ respectively ~~corresponding to each of said plurality of media types~~ prior to transmission;

placing successive ones of said ~~plurality of media data packets~~ in said queue in order of said assigned priority priorities; and

transmitting a first media data packet of said queue.

107. (Previously Presented) The method of Claim 103, wherein said selection is a bidirectional media type selection.

108. (Previously Presented) The method of Claim 103, wherein said second caller is coupled to the telephone line via a first modem.

109. (Currently Amended) The method of Claim 108, wherein the apparatus further comprises a second modem and the communication of information comprises transmitting packets received from said packet switched network ~~the first medium to the second caller by transmitting~~ from the second modem to the first modem.

110. (Previously Presented) The method of Claim 103, wherein said negotiating comprises sending messages from one or more connection routines at the apparatus to a connection routine of the remote processing machine.

111. (Previously Presented) The method of Claim 103, wherein said remote processing machine is associated with the first caller.

112. (Previously Presented) The method of Claim 103, wherein said remote processing machine is coupled to said first caller via a second telephone line.

113. (Currently Amended) The method of Claim 112, wherein the first caller initiates ~~the call~~ said communication of signals between the first and second callers.

114. (Currently Amended) The method of Claim 112, wherein the second caller initiates ~~the call~~ said communication of signals between the first and second callers.

115. (Currently Amended) A method of transmitting media data packets from a first processing machine to be delivered to one or more of a plurality of remote processing machines in data communication therewith, and for placing a telephone subscriber into communication with the plurality of remote processing machines, the method comprising:

transmitting a plurality of media data packets for delivery to at least one of said plurality of remote processing machines over ~~the~~ a packet switched network via one or more packet switched communication channels, said one or more packet switched communication channels having indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss, wherein each of said media data packets has a plurality of data fields associated therewith, at least one of said data fields comprising at least one destination address associated with a respective one of said plurality of remote processing machines; and

communicating signals of at least one media type via a telephone network to couple the telephone subscriber into communication with the plurality of remote processing machines;

wherein a first number of said plurality of media data packets may be transmitted for delivery to a first subset of said plurality of remote processing machines while a second number of said plurality of media data packets may be transmitted for delivery to a second subset of said plurality of remote processing machines, said first and second subsets not being identical.

116. (Previously Presented) The method of Claim 115, further comprising:

receiving from at least one source of media data a plurality of media data; and

formatting the plurality of media data to produce the plurality of media data packets.

117. (Previously Presented) The method of Claim 116, wherein the formatting comprises processing the plurality of media data to produce the plurality of media data packets.

118. (Currently Amended) The method of Claim 115, wherein the first subset involves remote processing machines which have negotiated the use of a first media type and the second subset involves remote processing machines which have negotiated the use of the first media type and a second media type.

119. (Previously Presented) The method of Claim 118, wherein the first media type corresponds to an audio media type, and the second media type corresponds to a video media type.

120. (Previously Presented) The method of Claim 118, wherein the first media type corresponds to an audio media type, and the second media type corresponds to a collaborative data media type.

121. (Previously Presented) The method of Claim 115, wherein said first subset comprises all of said plurality of remote processing machines, and said second subset comprises a lesser number thereof.

122. (Currently Amended) The method of Claim 115, further comprising generating, for each of said plurality of media data packets, a count of the number of said plurality of remote processing machines to which said a respective media data packet of said plurality of media data packets was delivered, but not received.

123. (Currently Amended) A method of operating an apparatus disposed in a telecommunications network, said apparatus comprising a computer readable medium having at least one computer program stored at least partly thereon, said at least one computer program

being adapted to bridge into teleconferencing communication one or more of a plurality of remote processing machines that are in signal communication with said apparatus via a packet switched network, and a telephone subscriber coupled to the apparatus at least partially via a telephone line, the method comprising:

transmitting ~~each of said~~ a plurality of media data packets to at least one of said plurality of remote processing machines over said ~~switched~~ packet switched network via one or more packet switched communication channels, said one or more packet switched communication channels having indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss, wherein each of said media data packets has a plurality of data fields associated therewith, at least one of said data fields comprising at least one destination address associated with a respective one of said plurality of remote processing machines; and

sending signals of at least one media type via a telephone network to couple said telephone subscriber into communication with the plurality of remote processing machines;

wherein a first number of said plurality of media data packets may be transmitted for delivery to a first subset of said plurality of remote processing machines while a second number of said plurality of media data packets may be transmitted for delivery to a second subset of said plurality of remote processing machines, said first and second subsets not being identical.

124. (Previously Presented) The method of Claim 123, further comprising:

receiving from at least one source of media data a plurality of media data; and
formatting the plurality of media data to produce the plurality of media data packets.

125. (Previously Presented) The method of Claim 124, wherein the formatting comprises processing the plurality of media data to produce the plurality of media data packets.

126. (Previously Presented) The method of Claim 123, wherein said first subset comprises all of said plurality of remote processing machines, and said second subset comprises a lesser number thereof.

127. (Currently Amended) The method of Claim 123, wherein the first subset involves remote processing machines which have negotiated the use of a first media type and the second subset involves remote processing machines which have negotiated the use of the first media type and a second media type.

128. (Previously Presented) The method of Claim 127, wherein the first media type corresponds to an audio media type, and the second media type corresponds to a video media type.

129. (Previously Presented) The method of Claim 127, wherein the first media type corresponds to an audio media type, and the second media type corresponds to a collaborative data media type.

130. (Currently Amended) The method of Claim 123, further comprising generating, for each of said plurality of media data packets, a count of the number of said plurality of remote processing machines to which said a respective media data packet of said plurality of media data packets was delivered, but not received.

131. (Currently Amended) In a communications network where a first processing machine establishes communication between at least second and third processing machines, the second processing machine being in signal communication with said first processing machine via a first communication medium, said first processing machine being in signal communication with said third processing machine via a second communication medium, a method comprising:

causing control signals to be sent to said second and third processing machines to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said first processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted via said first processing machine to at least one of said second and third processing machines consistent with said media type selections, said at least a portion of said plurality of corresponding digital media packets being transmitted over said first communication medium via one or more packet switched communication channels; ~~and~~

wherein for at least one of said at least two different media types, the first processing machine causes media signals to be communicated between the second and third processing machines; and

wherein said first communication medium comprises a packet switched network, and said second communication medium comprises a non-packet switched network.

132. (Previously Presented) The method of Claim 131, wherein said communication of media signals comprises communication of packetized media data.

133. (Currently Amended) The method of Claim 131, wherein said one or more packet switched communication channels ~~having~~ have an indeterminate packet loss.

134. (Currently Amended) The method of Claim 131, wherein said at least one of said at least two different media types comprises two media types.

135. (Currently Amended) The method of Claim 131, wherein said at least one of said at least two different media types comprises all of said at least two media types.

136. (Currently Amended) In a communications network where a processing machine establishes communication between at least first and second users, ~~the~~ said first user being in signal communication with said processing machine via a first communication medium, said processing machine being in signal communication with said second user via a second communication medium, a method comprising:

causing control signals to be sent to at least one of said first and second users to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted via said processing machine to at least one of said first and second users consistent with said media type selections, said at least a portion of said plurality of corresponding digital media packets being transmitted over said first communication medium via one or more packet switched communication channels; ~~and~~

wherein for at least one of said at least two different media types, ~~the~~ said processing machine causes media signals to be communicated between ~~the~~ said first and second users; ~~and~~

wherein one of ~~the~~ said first and second communication mediums comprises a packet switched network, and the other of ~~the~~ said first and second communication mediums comprises a non-packet switched network.

137. (Currently Amended) In a communications network where a first processing machine establishes communication between at least second and third processing machines, ~~the~~ said second processing machine being in communication with said first processing machine via a

packet-switched network having an indeterminate packet loss, said first processing machine being in signal communication with said third processing machine via at least a non-packet switched network, a method comprising:

causing control signals to be sent to said second and third processing machines to enable media type selections at each said second and third processing machines, at least said media type selection of said second processing machine comprising a selection of at least two different media types; and

transmitting via said first processing machine and said packet-switched network a plurality of digital media packets corresponding to each of said at least two different media types selected at said second processing machine;

wherein, for at least one of said at least two different media types, at least a portion of said transmitted digital media packets are also transmitted for delivery to at least said third processing machine consistent with said third processing machine's media type selection, said first processing machine causing media signals related to said at least a portion of said transmitted digital media packets to be communicated to said third processing machine.

138. (Previously Presented) The method of Claim 137, wherein said communication of said media signals to said third processing machine comprises communicating digital media packets.

139. (Currently Amended) In a communications network where a first processing machine establishes communication between at least second and third processing machines, the second processing machine being in communication with said first processing machine via communications channels of a packet-switched network having indeterminate packet loss, said first processing machine being in signal communication with said third processing machine via at least a non-packet switched network, a method comprising:

causing control signals to be sent to said second and third processing machines to enable media type selections; and

transmitting via said first processing machine and said communications channels a plurality of digital media packets corresponding to each of at least two different media types selected via said second processing machine based at least in part on said control signals;

wherein, for at least one of said at least two different media types, said first processing machine further causes signals related to at least a portion of said transmitted digital media

packets to be delivered to at least said third processing machine consistent with said third processing machine's media type selection.

140. (Currently Amended) In a communications network where a processing machine establishes communication between at least first and second users, ~~the~~ said first user being in communication with said processing machine via a packet-switched network having an indeterminate packet loss, said first processing machine being in signal communication with said second user via at least a non-packet switched network, a method comprising:

causing control signals to be sent to at least one of said first and second users to enable respective media type selections; and

transmitting via said processing machine and said packet-switched network a plurality of digital media packets corresponding to each of at least two different first user media types, said at least two different first user media types being selected based at least in part on said control signals;

wherein, for at least one of said at least two different first user media types, said first processing machine further causes signals associated with at least a portion of said ~~transmitted~~ plurality of digital media packets to be delivered to at least said second user consistent with said second user media type selection.

141. (Previously Presented) For use in a system where a communications apparatus is adapted to communicate with a first caller apparatus over a packet switched network and with a second caller apparatus via a telephone line, and to communicate signals between the first and second caller apparatus, a method comprising:

negotiating with the first caller apparatus a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the communication apparatus to process media data packets received from and to be transmitted to said first caller apparatus over said packet switched network via one or more packet switched communication channels having indeterminate packet loss; and

placing said second caller apparatus into signal communication with the communication apparatus at least via the telephone line;

wherein said selection is of only audio, and said negotiation comprises sending a first message and receiving a response message, said negotiation involving a message format that

supports the description of the audio, video and data media types, wherein the first message indicates that only audio is being offered in the present negotiation; and

wherein the communication apparatus communicates information between said first caller apparatus and said telephone line.

142. (Currently Amended) For use in an apparatus adapted to couple into communication a remote processing machine with a caller coupled via a telephone line, a method comprising:

negotiating with a said remote processing machine a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the apparatus to process media data packets received from and to be transmitted to said remote processing machine over ~~said~~ a packet switched network via one or more packet switched communication channels, said one or more packet switched communication channels having indeterminate packet loss; and

placing said caller into signal communication with the apparatus at least via the telephone line;

wherein said selection is of only audio, and said negotiation comprises sending a first message and receiving a response message, said negotiation involving a message format that supports the description of the audio, video and data media types; and

wherein the apparatus communicates information between said remote processing machine and said telephone line.

143. (Currently Amended) The method of Claim 142, wherein said indeterminate packet loss is determined at least in part by indeterminate system delays and bandwidth limitations of said packet switched communications channels.

144. (Currently Amended) The method of Claim 142, further comprising:
assigning a priority to each of said media data packets at said apparatus;
wherein said media data packets are transmitted from said apparatus in substantially ~~said~~ the order of said assigned priorities.

145. (Currently Amended) The method of Claim 144, wherein said transmission of said ~~plurality of media data packets over said communication system~~ from said apparatus in substantially ~~said~~ the order of said assigned ~~priority~~ priorities further comprises:

providing a queue for holding said ~~plurality of~~ media data packets ~~respectively~~
~~corresponding to each of said plurality of media type selections~~ prior to transmission;

placing successive ones of said ~~plurality of~~ media data packets in said queue in order of
said assigned ~~priority~~ priorities; and

transmitting a first media data packet of said queue.

146. (Previously Presented) The method of Claim 142, wherein the selection is a
bidirectional media type selection.

147. (Previously Presented) The method of Claim 142, wherein said caller is coupled to
the telephone line via a first modem.

148. (Currently Amended) The method of Claim 147, wherein the apparatus further
comprises a second modem and the act of communicating information comprises transmitting
media data packets received from the ~~first medium packet switched network to the caller by~~
~~transmitting~~ from the second modem to the first modem.

149. (Previously Presented) The method of Claim 142, wherein said act of negotiating
comprises sending messages from one or more connection routines at the apparatus to a
connection routine of the remote processing machine.

150. (Previously Presented) The method of Claim 142, wherein said remote processing
machine is associated with another caller.

151. (Currently Amended) The method of Claim 150, wherein said remote processing
machine is coupled to said ~~other~~ another caller via a second telephone line.

152. (Currently Amended) The method of Claim 151, wherein said caller initiates ~~the~~
call communication.

153. (Currently Amended) The method of Claim 151, wherein said ~~other~~ another caller
initiates ~~the call~~ communication.

154. (Currently Amended) For use in an apparatus adapted to couple into communication
a remote processing machine with a caller coupled via a telephone line, a method comprising:

negotiating with a said remote processing machine a selection of at least one media type
from a plurality of media types including audio, video and data, and to configure, according to
said selection, the apparatus to process media data packets received from and to be transmitted to
said remote processing machine over a packet switched network; and

placing said caller into signal communication with the apparatus at least via the telephone line;

wherein said selection is of only audio, and said negotiation comprises a message format that supports the description of the audio, video and data media types; and

wherein the apparatus communicates information between said remote processing machine and said telephone line.

155. (Currently Amended) The method of Claim 154, wherein said packet switched network introduces indeterminate packet loss~~[[,]] and wherein said indeterminate packet loss is~~ determined at least in part by indeterminate system delays and bandwidth limitations of said ~~communications channels~~ packet switched network.

156. (Currently Amended) The method of Claim 154, further comprising:
assigning a priority to each of said media data packets at said apparatus;
wherein said media data packets are transmitted from said apparatus in substantially ~~said~~ the order of said assigned priorities.

157. (Currently Amended) The method of Claim 156, wherein said transmission of said ~~plurality of media data packets over said communication system~~ from said apparatus in substantially ~~said the~~ order of said assigned ~~priority~~ priorities further comprises:

providing a queue for holding said ~~plurality of media data~~ data packets ~~respectively~~ ~~corresponding to each of said plurality of media types~~ prior to transmission;

placing successive ones of said ~~plurality of media data~~ packets in said queue in order of said assigned ~~priority~~ priorities; and

transmitting a first media data packet of said queue.

158. (Previously Presented) The method of Claim 154, wherein said media type selection is a bidirectional media type selection.

159. (Previously Presented) The method of Claim 154, wherein said caller is coupled to the telephone line via a first modem.

160. (Currently Amended) The method of Claim 159, wherein the apparatus further comprises a second modem and the act of communicating information comprises transmitting media data packets received from the ~~first medium to the caller by transmitting~~ packet switched network from the second modem to the first modem.

161. (Previously Presented) The method of Claim 154, wherein said act of negotiating comprises sending messages from one or more connection routines at the apparatus to a connection routine of the remote processing machine.

162. (Previously Presented) The method of Claim 154, wherein said remote processing machine is associated with a second caller.

163. (Previously Presented) The method of Claim 162, wherein said remote processing machine is coupled to said second caller via a second telephone line.

164. (Currently Amended) The method of Claim 163, wherein said caller initiates ~~the~~ call communication.

165. (Currently Amended) The method of Claim 163, wherein said second caller initiates ~~the call~~ communication.

166. (Currently Amended) For use in an apparatus adapted to couple into communication a remote processing means with a caller coupled via a telephonic means, a method comprising the steps of:

a step for negotiating with ~~[[a]]~~ said remote processing means a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the apparatus to process media data packets received from and to be transmitted to said remote processing means over a packet switched network;

a step for placing said caller into signal communication with the apparatus at least via the telephonic means;

wherein said selection is of only audio, and said negotiation comprises a message format that supports the description of the audio, video and data media types; and

a step for the apparatus to communicate information between said remote processing means and said telephonic means.

167. (Previously Presented) The method as claimed in Claim 166, wherein the packet switched network introduces indeterminate packet loss.

168. (Currently Amended) In a communications network where a processing machine establishes communication between at least a first caller, a second caller, and a third caller, wherein said first caller is coupled to said processing machine over a first communication medium, and said processing machine is coupled to said second caller over a second

communication medium, and said processing machine is coupled to said third caller over a third communication medium, a method comprising:

invoking at least one connection routine at said processing machine to cause control signals to be sent to at least one of said first, second and third callers to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted to at least one of said first, second and third callers, in accordance with said media type selections, ~~and~~ over said first communication medium via one or more packet switched communication channels;

wherein for at least one of said at least two different media types, the processing machine causes media signals to be communicated among the first, second and third callers[[,]] ; and

wherein in at least one supported mode of communication, a first number of said plurality of digital media packets is transmitted for delivery from said first caller to said second caller while a second number of said plurality of digital media packets is transmitted for delivery from said first caller to said third caller, wherein said first and second numbers may not be identical.

169. (Previously Presented) The method as claimed in Claim 168, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

170. (Currently Amended) The method as claimed in Claim 168, wherein at least one of said ~~two~~ media type selections is performed by either a user or by a routine running on a device used by said user.

171. (Currently Amended) The method as claimed in Claim 168, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

172. (Currently Amended) In a communications network where a processing machine establishes communications between at least first, second and third user machines, said first user machine being coupled to said processing machine over a first communication medium, said processing machine being coupled to said second user machine over a second communication

medium, said processing machine being coupled to said third user machine over a third communication medium, a method comprising:

causing control signals to be sent to said first, second and third user machines to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types, said plurality of digital media packets being transmitted in accordance with said media type selections over said first communication medium via one or more packet switched communication channels;

wherein for at least one of said at least two different media types, media signals are communicated among said first, second and third user machines[[,]] ; and

wherein in at least one supported mode of communication, a first number of said plurality of digital media packets is transmitted for delivery from said first user machine to said second user machine while a second number of said plurality of digital media packets is transmitted for delivery from said first user machine to said third user machine, wherein said first and second numbers may not be identical.

173. (Previously Presented) The method as claimed in Claim 172, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

174. (Previously Presented) The method as claimed in Claim 172, wherein at least one of said media type selections is performed by either a user or by a routine running on at least one of said first, second and third user machines.

175. (Currently Amended) The method as claimed in Claim 172, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

176. (Currently Amended) For use in a system where a processing machine is adapted to communicate with a first caller via a packet switched network, communicate with a second caller at least via a second network, communicate with a third caller at least via a third network, and to communicate signals among the first, second and third callers, a method comprising:

negotiating with a remote processing machine a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the processing machine to process media data packets received from and to be

transmitted to said remote processing machine over said packet switched network via one or more packet switched communication channels;

placing said second caller into signal communication with the processing machine at least via the second network; and

placing said third caller into signal communication with the processing machine at least via the third network;

wherein said selection is of only audio, and said negotiation comprises sending a first message and receiving a response message, said negotiation involving a message format that supports the description of the audio, video and data media types, wherein the first message indicates that only audio is being offered in the negotiation; and

wherein in at least one supported mode of communication, a first number of said ~~plurality~~ of media data packets is transmitted for delivery from said first caller to said second caller while a second number of said ~~plurality of~~ media data packets is transmitted for delivery from said first caller to said third caller, wherein said first and second numbers may not be identical.

177. (Currently Amended) The method as claimed in Claim 176, wherein said ~~digital~~ media data packets include video packets, audio packets, and collaborative data packets.

178. (Currently Amended) The method as claimed in Claim 176, wherein ~~at least one of~~ said ~~media type selections~~ selection is performed by either a user or by a routine running on a device used by said user.

179. (Currently Amended) The method as claimed in Claim 176, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

180. (Currently Amended) In a communications network where a first processing machine establishes communication between at least second and third processing machines, ~~the~~ said second processing machine being in signal communication with said first processing machine via a first communication medium, said first processing machine being in signal communication with said third processing machine via a second communication medium, a method comprising:

causing control signals to be sent to said second and third processing machines to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said first processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted via said first processing machine to at least one of said second and third processing machines consistent with said media type selections, said at least a portion of said plurality of corresponding digital media packets being transmitted over said first communication medium via one or more packet switched communication channels;

wherein for at least one of said at least two different media types, the first processing machine causes media signals to be communicated between the second and third processing machines;; and

wherein in at least one supported mode of communication, a first number of said plurality of digital media packets is transmitted for delivery from said first processing machine to said second processing machine while a second number of said plurality of digital media packets is transmitted for delivery from said first processing machine to said third processing machine, wherein said first and second numbers may not be identical.

181. (Previously Presented) The method as claimed in Claim 180, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

182. (Previously Presented) The method as claimed in Claim 180, wherein at least one of said media type selections is performed by either a user or by a routine running on at least one of said first, second and third processing machines.

183. (Currently Amended) The method as claimed in Claim 180, wherein said one or more packet switched communication channels providing provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

184. (Currently Amended) In a communications network where a processing machine establishes communication between at least first, second and third users, ~~the~~ said first user being in signal communication with said processing machine via a first communication medium, said processing machine being in signal communication with said second user via a second communication medium, said processing machine being in signal communication with said third user via a third communication medium, a method comprising:

causing control signals to be sent to at least one of said first, second and third users to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted via said processing machine to at least one of said first, second and third users consistent with said media type selections, said at least a portion of said plurality of corresponding digital media packets being transmitted over said first communication medium via one or more packet switched communication channels; and

wherein for at least one of said at least two different media types, ~~the~~ said processing machine causes media signals to be communicated among ~~the~~ said first, second and third users;; and

wherein in at least one supported mode of communication, a first number of said plurality of digital media packets is transmitted for delivery from said first user to said second user while a second number of said plurality of digital media packets is transmitted for delivery from said first user to said third user, wherein said first and second numbers may not be identical.

185. (Previously Presented) The method as claimed in Claim 184, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

186. (Previously Presented) The method as claimed in Claim 184, wherein at least one of said media type selections is performed by either a user or by a routine running on a machine used by said user.

187. (Currently Amended) The method as claimed in Claim 184, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

188. (Currently Amended) In a communications network where a processing machine establishes communication between a first caller and a second caller, wherein said first caller is coupled to said processing machine over a first communication medium, and said processing machine is coupled to said second caller over a second communication medium, a method comprising:

invoking at least one connection routine at said processing machine to cause control signals to be sent to at least one of said first and second callers to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted to at least one of said first and second callers in accordance with said media type selections ~~and~~ over said first communication medium via one or more packet switched communication channels, said one or more packet switched communication channels including a single connection stream that includes packets of at least one media stream set up for each of said ~~at least one~~ media type selections by said first and second callers; and

wherein for at least one of said at least two different media types, the processing machine causes media signals to be communicated between the first and second callers.

189. (Previously Presented) The method as claimed in Claim 188, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

190. (Previously Presented) The method as claimed in Claim 188, wherein at least one of said media type selections is performed by either a user or by a routine running on a machine used by said user.

191. (Currently Amended) The method as claimed in Claim 188, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

192. (Currently Amended) In a communications network where a processing machine establishes communications between at least first and second user machines, said first user machine being coupled to said processing machine over a first communication medium, and said processing machine being coupled to said second user machine over a second communication medium, a method comprising:

causing control signals to be sent to said first and second user machines to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types, said plurality of digital media packets being transmitted in accordance with said media type selections over said first communication medium via one or more packet switched communication channels, said one or more packet switched communication channels including a single connection stream that includes packets of at least one media stream set up for each of said ~~at least two~~ media type selections;

wherein for at least one of said at least two different media types, media signals are communicated between the first and second user machines.

193. (Previously Presented) The method as claimed in Claim 192, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

194. (Previously Presented) The method as claimed in Claim 192, wherein at least one of said media type selections is performed by either a user or by a routine running on at least one of said first or second user machines.

195. (Currently Amended) The method as claimed in Claim 192, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

196. (Currently Amended) In a communications network where first and second user machines are adapted for communication with a processing machine via first and second communication mediums, respectively, a method of establishing user-to-user communication comprising:

causing control signals to be sent to said first and second user machines to enable respective media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of packets corresponding to each of said at least two different media types, said packets being transmitted in accordance with said media type selections over at least one channel of said first medium, said at least one channel including a single connection stream that includes packets of at least one media stream set up for each of said at least two different media types;

wherein for at least one of said at least two different media types, media signals are communicated between the first and second user machines via both said first and second communication mediums.

197. (Currently Amended) The method as claimed in Claim 196, wherein said ~~digital~~ media packets include video packets, audio packets, and collaborative data packets.

198. (Previously Presented) The method as claimed in Claim 196, wherein at least one of said media type selections is performed by either a user or by a routine running on at least one of said first and second user machines.

199. (Currently Amended) The method as claimed in Claim 196, wherein said ~~one or more communication channels providing~~ at least one channel provides indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

200. (Currently Amended) For use in a system where a processing machine is adapted to communicate with a first caller via a packet switched network, communicate with a second caller at least via a telephone line, and to communicate signals between the first and second callers, a method comprising:

negotiating with a remote processing machine a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the processing machine to process media data packets received from and to be transmitted to said remote processing machine over said packet switched network via one or more packet switched communication channels, said one or more packet switched communication channels including a single connection stream that includes packets of at least one media stream set up for each of said at least one media type; and

placing said second caller into signal communication with the processing machine at least via the telephone line;

wherein said selection is of only audio, and said negotiation comprises sending a first message and receiving a response message, said negotiation involving a message format that supports the description of the audio, video and data media types, wherein the first message indicates that only audio is being offered in the negotiation; and

wherein the processing machine communicates information between said remote processing machine and said telephone line.

201. (Currently Amended) The method as claimed in Claim 200, wherein said ~~digital~~ media data packets include video packets, audio packets, and collaborative data packets.

202. (Currently Amended) The method as claimed in Claim 200, wherein ~~at least one of~~ said ~~media type selections~~ selection is performed by either a user or by a routine running on at least one of said remote processing machine and said telephone line.

203. (Currently Amended) The method as claimed in Claim 200, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

204. (Currently Amended) In a communications network where a first processing machine establishes communication between at least second and third processing machines, the second processing machine being in signal communication with said first processing machine via a first communication medium, said first processing machine being in signal communication with said third processing machine via a second communication medium, a method comprising:

causing control signals to be sent to said second and third processing machines to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said first processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted via said first processing machine to at least one of said second and third processing machines consistent with said media type selections, said at least a portion of said plurality of corresponding digital media packets being transmitted over said first communication medium via one or more packet switched communication channels, said one or more packet switched communication channels including a single connection stream that includes packets of at least one media stream set up for each of said at least ~~one~~ two different media types; and

wherein for at least one of said at least two different media types, the first processing machine causes media signals to be communicated between the second and third processing machines.

205. (Previously Presented) The method as claimed in Claim 204, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

206. (Previously Presented) The method as claimed in Claim 204, wherein at least one of said media type selections is performed by either a user or by a routine running on at least one of said first, second and third processing machines.

207. (Currently Amended) The method as claimed in Claim 204, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

208. (Currently Amended) In a communications network where a processing machine establishes communication between at least first and second users, the first user being in signal communication with said processing machine via a first communication medium, said processing machine being in signal communication with said second user via a second communication medium, a method comprising:

causing control signals to be sent to at least one of said first and second users to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted via said processing machine to at least one of said first and second users consistent with said media type selections, said at least a portion of said plurality of corresponding digital media packets being transmitted over said first communication medium via one or more packet switched communication channels, said one or more packet switched communication channels including a single connection stream that includes packets of at least one media stream set up for each of said at least two different media types; and

wherein for at least one of said at least two different media types, the processing machine causes media signals to be communicated between the first and second users.

209. (Previously Presented) The method as claimed in Claim 208, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

210. (Previously Presented) The method as claimed in Claim 208, wherein at least one of said media type selections is performed by either a user or by a routine running on a machine used by said user.

211. (Currently Amended) The method as claimed in Claim 208, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

212. (Previously Presented) For use in a system where a processing machine is adapted to communicate with a first caller via a first network that corresponds to a packet switched network, communicate with a second caller at least via a second network, and to communicate signals between the first and second callers, a method comprising:

negotiating with a remote processing machine a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the processing machine to process media data packets received from and to be transmitted to said remote processing machine over said packet switched network via one or more packet switched communication channels;

placing said second caller into signal communication with the processing machine at least via the second network;

wherein, in a case where the second network is a telephone line and said selection is of only audio, said negotiation comprises sending a first message and receiving a response message, said negotiation involving a message format that supports the description of the audio, video and data media types, wherein the response message indicates that only audio is being accepted in the negotiation; and

wherein the processing machine communicates information between said remote processing machine and said second network.

213. (Currently Amended) The method as claimed in Claim 212, wherein said ~~digital~~ media data packets include video packets, audio packets, and collaborative data packets.

214. (Currently Amended) The method as claimed in Claim 212, wherein ~~at least one of~~ said ~~media type selections~~ selection is performed by either a user or by a routine running on a machine used by said user.

215. (Currently Amended) The method as claimed in Claim 212, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

216. (Currently Amended) In a communications network where a processing machine establishes communication between a first caller and a second caller, wherein said first caller is

coupled to said processing machine over a first communication medium, and said processing machine is coupled to said second caller over a second communication medium, a method comprising:

invoking at least one connection routine at said processing machine to cause control signals to be sent to at least one of said first and second callers to enable media type selections, at least one of said media type selections including a selection of at least two different media types; and

transmitting via said processing machine a plurality of digital media packets corresponding to each of said at least two different media types;

wherein, for at least one of said at least two different media types, at least a portion of said plurality of corresponding digital media packets are transmitted to at least one of said first and second callers, in accordance with said media type selections, ~~and~~ over said first communication medium via one or more packet switched communication channels,

wherein for at least one of said at least two different media types, the processing machine causes media signals to be communicated between the first and second callers, and

wherein said processing machine is adapted to assign a priority to each of said corresponding digital media packets,

said method further comprising:

holding, in a queue, said plurality of corresponding digital media packets ~~respectively~~ ~~corresponding to each of said plurality of digital media~~ prior to transmission;

placing successive ones of said plurality of corresponding digital media packets in said queue in order of said assigned ~~priority~~ priorities; and

transmitting ~~the~~ a first digital media packet in said queue.

217. (Previously Presented) The method as claimed in Claim 216, wherein said digital media packets include video packets, audio packets, and collaborative data packets.

218. (Previously Presented) The method as claimed in Claim 216, wherein at least one of said media type selections is performed by either a user or by a routine running on a machine used by said user.

219. (Currently Amended) The method as claimed in Claim 216, wherein said one or more packet switched communication channels ~~providing~~ provide indeterminate system delays and bandwidth limitations that give rise to indeterminate packet loss.

220. (Currently Amended) A method of transmitting data packets from a first processing machine to be delivered to one or more of a plurality of remote processing machines in data communication therewith, and for placing a telephone subscriber into communication with the plurality of remote processing machines, the method comprising:

transmitting a plurality of media data packets for delivery to at least one of said plurality of remote processing machines over ~~the a~~ packet switched network via one or more packet switched communication channels, wherein each of said media data packets has a plurality of data fields associated therewith, at least one of said data fields comprising at least one destination address associated with a respective one of said plurality of remote processing machines; and

communicating signals of at least one media type via a telephone network to couple the telephone subscriber into communication with the plurality of remote processing machines;

wherein a first number of said plurality of media data packets may be transmitted for delivery to a first subset of said plurality of remote processing machines while a second number of said plurality of media data packets may be transmitted for delivery to a second subset of said plurality of remote processing machines, said first and second subsets not being identical.

221. (Currently Amended) A method of operating an apparatus disposed in a telecommunications network, said apparatus comprising a computer readable medium having at least one computer program stored at least partly thereon, said at least one computer program being adapted to bridge into teleconferencing communication one or more of a plurality of remote processing machines that are in signal communication with said apparatus via a packet switched network, and a telephone subscriber coupled to the apparatus at least partially via a telephone line, the method comprising:

transmitting each of ~~said a~~ plurality of media data packets to at least one of said plurality of remote processing machines over said ~~switched~~ packet switched network via one or more packet switched communication channels, wherein each of said media data packets has a plurality of data fields associated therewith, at least one of said data fields comprising at least one destination address associated with a respective one of said plurality of remote processing machines; and

sending signals of at least one media type via a telephone network to couple said telephone subscriber into communication with the plurality of remote processing machines;

wherein a first number of said plurality of media data packets may be transmitted for delivery to a first subset of said plurality of remote processing machines while a second number of said plurality of packets may be transmitted for delivery to a second subset of said plurality of remote processing machines, said first and second subsets not being identical.

222. (Currently Amended) For use in an apparatus adapted to couple into communication a remote processing machine with a caller coupled via a telephone line, a method comprising:

negotiating with ~~[[a]]~~ said remote processing machine a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the apparatus to process media data packets received from and to be transmitted to said remote processing machine over ~~said a~~ packet switched network via one or more packet switched communication channels; and

placing said caller into signal communication with the apparatus at least via the telephone line;

wherein said selection is of only audio, and said negotiation comprises sending a first message and receiving a response message, said negotiation involving a message format that supports the description of the audio, video and data media types; and

wherein the apparatus communicates information between said remote processing machine and said telephone line.

223. (Currently Amended) For use in an apparatus adapted to couple into communication a remote processing means with a caller coupled via a telephonic means, a method comprising the steps of:

a step for negotiating with ~~[[a]]~~ said remote processing means a selection of at least one media type from a plurality of media types including audio, video and data, and to configure, according to said selection, the apparatus to process media data packets received from and to be transmitted to said remote processing means over a packet switched network;

a step for placing said caller into signal communication with the apparatus at least via the telephonic means;

wherein said selection is of only audio, and said negotiation comprises a message format that supports the description of the audio, video and data media types; and

a step for the apparatus to communicate information between said remote processing means and said telephonic means.